

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/pera/

DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)

BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Marvin Windows and Doors Highway 11 West (P.O. Box 100) Warroad, MN 56763-0100

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "StormPlus IZ4 Clad Casemaster Casement" Aluminum Clad Wood Casement Window-LMJ.

APPROVAL DOCUMENT: Drawing No. 1535, titled "Clad Casemaster Casement StormPlus IZ4", sheets 1 through 9 of 9, dated 04/03/08, with revision A1 dated 10/14/11, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA revises NOA # 08-1014.06 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez. P.E.



W

NOA No. 11-1021.12 Expiration Date: March 04, 2014 Approval Date: December 22, 2011 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No. 1535, titled "Clad Casemaster Casement StormPlus IZ4", sheets 1 through 9 of 9, dated 04/03/08, with revision A1 dated 10/14/11, prepared by W. W. Schaefer Engineering & Consulting, P.A, signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of a StormPlus IZ4 wood casement window, prepared by Architectural Testing, Inc., Test Report No. **ATI-77675.01-201-18**, dated 06/16/08, and addendum letter dated 01/09/09, all signed and sealed by Joseph A. Reed, P.E.

(Submitted under NOA# 08-1014.06)

- 2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of "StormPlus IZ4 wood casement window, prepared by Architectural Testing, Inc., Test Report No.

ATI-77676.01-201-18, dated 08/05/08, signed and sealed by Joseph A. Reed, P.E. *((Submitted under NOA# 08-1014.06 for reference only)*

- 3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of "StormPlus IZ4 wood awning window, prepared by Architectural Testing, Inc., Test Report No.

ATI-77779.01-201-18, dated 12/20/07, signed and sealed by Joseph A. Reed, P.E.

(Submitted under NOA# 08-1014.06 for reference only)

Manuel Perez; P.E. Product Control Examiner NOA No. 11-1021,12

Expiration Date: March 04, 2014 Approval Date: December 22, 2011

Marvin Windows and Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with FBC-2007 and FBC-2010, prepared by prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 08/28/08, 12/02/08, and updated on10/14/11, signed and sealed by Warren W. Schaefer, P.E.
- 2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 10-0413.04 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Sentry Glass® Interlayer" dated 05/26/10, expiring on 01/14/12.

F. STATEMENTS

- 1. Statement letter of conformance complying with the FBC-2007 and FBC-2010, dated October 14, 2011, signed and sealed by Warren W. Schaefer, P.E.
- 2. Statement letter of no financial interest, dated October 14, 2011, signed and sealed by Warren W. Schaefer, P.E.
- 3. Laboratory compliance letter for Test Report No. **ATI 77675.01-201-18** issued by Architectural Testing, Inc., dated 09/25/08, signed and sealed by Joseph A. Reed, P.E.
- 4. Laboratory compliance letter for Test Report No. **ATI 77676.01-201-18** issued by Architectural Testing, Inc., dated 09/26/08, signed and sealed by Joseph A. Reed, P.E.
- 5. Test Proposal #07-3071 issued by BCCO dated 06/21/07, revised on 07/02/07, signed by Manuel Perez, P.E.

G. OTHERS

1. Notice of Acceptance No. **08-1014.06**, issued to Marvin Windows and Doors for their Series "StormPlus IZ4 Casemaster" Aluminum Clad Wood Casement Window – L.M.I., approved on 03/04/09 and expiring on 03/04/14.

Manuel Perez P.E. Product Control Examiner

NOA No. 11-1021.12

Expiration Date: March 04, 2014 Approval Date: December 22, 2011

GENERAL NOTES: THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUC SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY FOR MAX. FRAME W.W.S. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY WIDTH, SEE ALLOWABLE EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S). THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURES 04/03/08 DESIGN PRESSURE 2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE TABLE ON THIS SHEET 3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO. 6" MAX. 6" MAX. 4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA SEE "CORNER-E HEIGHT P APPROVAL AWNING OR FIXED BUILDING CODE PROTOCALS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS. CONSTRUCTION" CASEMENT WINDOW 5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF DESCRIPTION ON THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ). (SEE DRAWING NO. 6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS. THIS SHEET 141 1536 OR 15**3**7 UNDER 7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE MAX. FRAME WINDOW A SEPARATE APPROVAL CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD. B. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN 6" MAX. FOR DETAILS) ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF Kd = 0.85 MAY BE APPLIED WHEN USED PER THE ASCE 7 STANDARD. 9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY. 10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER <u>C1</u> 5 40 ALLOWABLE THIS SHEET 5/16" DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20. 11. All WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE ω PER FBC SECTION 2326. NAILING FIN IS SEE ON REQUIRED WITH CLIP SNUBBER REQUIREMENTS TABLE LOCK REQUIREMENTS TABLE (43)(46) MOUNT CONDITION (RECTANGULAR WINDOWS ALLOWABLE THIS SHEET (RECTANGULAR WINDOWS) HEIGHT, TABLE AND IS OPTIONAL & MAX, FRAME HEIGHT MIN, NO. OF SNUBBERS MAX. FRAME HEIGHT MIN. NO. OF LOCKS MAY BE REMOVED FRAME FOR A FRAME SHEAR 71 1/8" 71 1/8 FRAME H SCREW MOUNT 15' 47 3/8" 47 3/8" SNUBBER **IZ4** CONDITION (NAIL FIN MAX. 23 5/8" SHALL NOT ACT AS 0.C. MAX. D.L.O. SEE SINGLE WINDOW D.L.0. STORMPLUS A SUBSTITUTE FOR CORNER CONSTRUCTION (STANDARD RECTANGULAR WINDOWS) **ELEVATION ON THIS** = FRAME HEIGHT, TABLE THE FRAME SHEAR SHEET FOR FRAME FRAME CORNERS: THE SIDE WOOD MEMBERS ARE BUTTED TO THE HEAD & SILL MEMBERS, SECURED WITH THREE(3) GS16 X 1 1/2" STAPLES THROUGH THE HEAD & SILL INTO THE JAMB & ONE(1) 14 GA. 7/16 X 2" STAPLE THROUGH THE JAMB INTO THE HEAD & SILL & SEALED WITH SEALANT. WIDTH -- 5 1/2" SCREWS SPECIFIED) ANCHOR REQUIREMENTS NOTE: NAIL FIN IS & POSITIONS AROUND (40) NOT REQUIRED TO FRAME CLADDING CORNERS; CLADDING IS MITERED TOGETHER & JOINED WITH A CORNER KEY PART NO. 37A. WINDOWS-SASH CORNERS: SASH MEMBERS ARE MORTISED & TENONED AND SECURED WITH ONE(1) GS16 X 1 1/8" STAPLE. BE SEPERATELY CASEMENT SASH CALADDING CORNERS: CLADDING IS MITERED TOGETHER & JOINED WITH A CORNER KEY PART NO. 37B. ANCHORED -CORNER CONSTRUCTION (SHAPED WINDOWS) FRAME CORNERS: THE SIDE WOOD MEMBERS ARE BUTTED TO THE HEAD & SILL MEMBERS & SECURED WITH NO. 7 6" MAX X 2" SCREWS (3 AT SQUARE CORNERS; 4 AT SHAPED CORNERS) AND SEALED WITH SEALANT. FRAME CLADDING CORNERS: CLADDING IS MITERED TOGETHER & JOINED WITH A CORNER KEY PART NO. 37C WHICH IS SCREWED CLAD TO KEY WITH 4 NO. 7 X 1/2" SCREWS (2 PER KEY LEG). CASEMASTER SASH CORNERS: SASH MEMBERS ARE BUTTED TOGETHER, JOINED WITH 2 NO. 7 X 2" TRIM HEAD SCREWS & SEALED WITH SEALANT. FRAME SHEAR SCREW EXTERIOR ELEVATION SASH CALADDING CORNERS: MITER CUT, BUTTED TOGETHER AND SEALED WITH SEALANT OR INSTALLATION CLIP SINGLE RECTANGULAR WHERE SHOWN. SEE FRAME ANCHOR REQUIREMENTS TABLE "FRAME ANCHOR CASEMENT WINDOW REQUIREMENTS TABLE" OPENING TYPE FRAME/CLIP TO OPENING MINIMUM MINIMUM SCALE: 3/4" = 1'-0"CIAD III ON THIS SHEET FOR (SUBSTRATE) FASTENER TYPE **EMBED** EDGE DIST FOR MAX. FRAME SCREW REQUIREMENTS FRAME SHEAR SCREWS WIDTH, SEE ALLOWABLE DESIGN PRESSURE MIN. 2X4 WOOD FRAME OR BUCK NO. 10 SMS OR WOOD SCREW 1 1/4" 3/4" TABLE ON THIS SHEET (MIN. GR. 3 & G=0.55) ALLOWABLE DESIGN PRESSURE EXTERIOR ELEVATION MIN. 18 GA. 33 KSI METAL STUD NO. 10 GR. 5 SELF TAP/DRILLING SCREW 1/2" FULL (SINGLE RECTANGULAR WINDOW & SINGLE SINGLE RECTANGULAR CASEMENT MIN. 1/8" THK A36 STEEL NO. 10 GR. 5 SELF TAP/DRILLING SCREW FULL 1/2" SCALE: 3/4" = 1'-0" (FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATION) PRODUCT REVISED as complying with the 193 milding Co. WINDOW WITH TRANSOM) MIN. 1/8" THK 6063-T5 ALUM. NO. 10 GR. 5 SELF TAP/DRILLING SCREW 1/2" FULL MAXIMUM FRAME MAXIMUM FRAME **ALLOWABLE** C-90 CMU/2500 PSI CONCRETE (1) 1/4" CONCRETE SCREW 1 1/4" WIDTH HEIGHT **PRESSURE** 2" 71 1/8 28' +70/-85 PSF INSTALLATION CLIP SCREWS 32" 71 1/8 +70/-70 PSF MIN. 2X4 WOOD FRAME OR BUCK EN KPRO NO. 8 X 1 1/2" SMS 1 3/8" 1/2" 59 1/8 (MIN. GR. 3 & G=0.55) 36" +70/-70 PSF Willian B MIN. 1/8" THK A36 STEEL NO. 8 GR. 5 SELF TAP/DRILLING SCREW FULL 1/2" 1. WITH TRANSOM UNITS, THE LESSER OF THE Acceptance No 11-1021.17 Expiration Date VANCE 4-2014 PRESSURE SHOWN IN THIS TABLE OR THAT SPECIFIED IN MIN. 1/8" THK 6063-T5 ALUM. NO. 8 GR. 5 SELF TAP/DRILLING SCREW FULL 1/2" THE INDIVIDUAL FIXED OR AWNING WINDOW APPROVAL <u> 1535</u> (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD

UNIT.

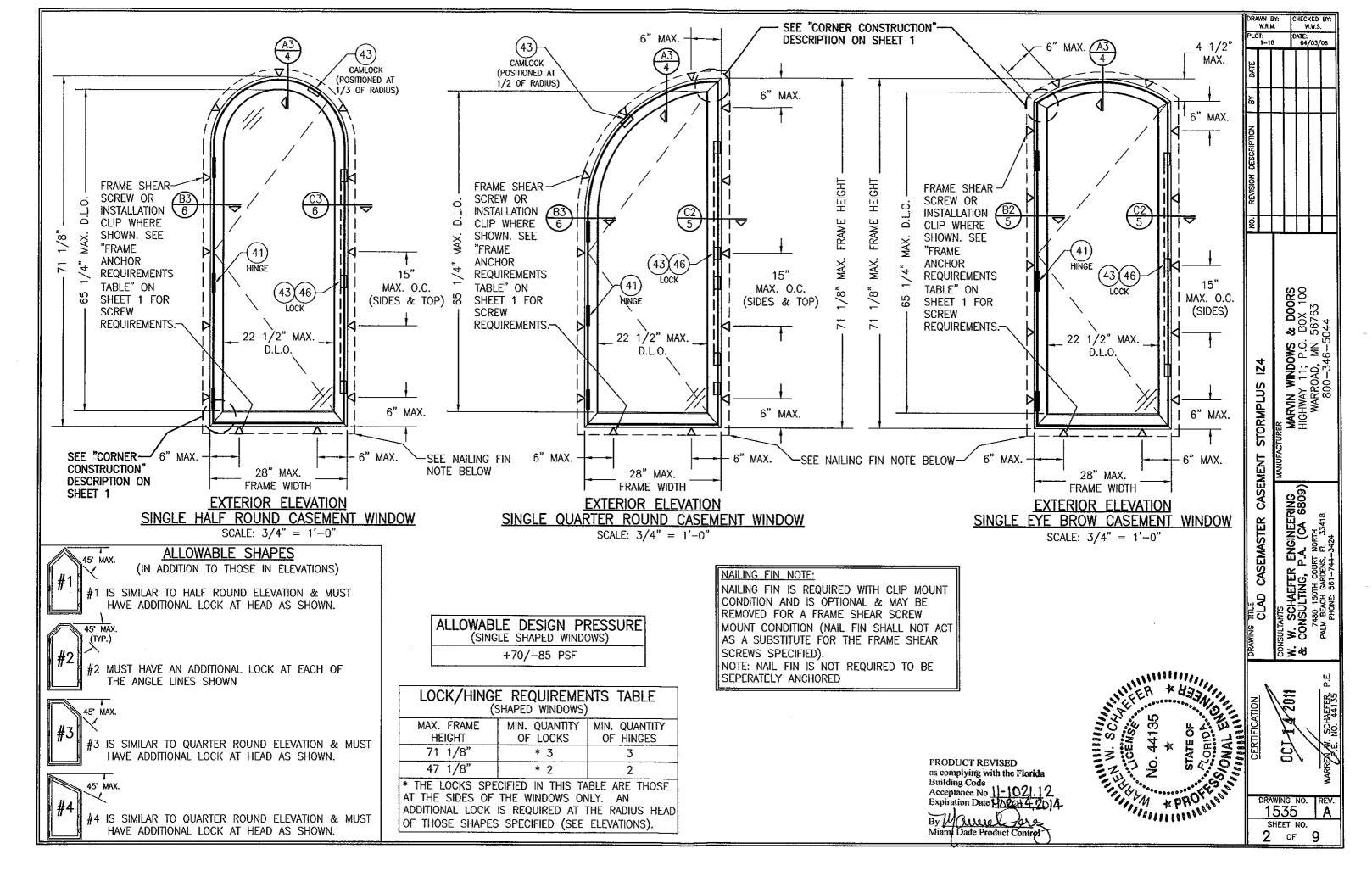
TAPCONS, HILTI KWIK-CON II OR POWERS RAWL TAPPER (HARDENED STEEL OR S.S.)

SHALL CONTROL AS THE ALLOWABLE FOR THE OVERALL

SHEET NO.

OF

Miami Dade Product Control



| (SIDE BY SIDE WINDOWS) | | | S) |
|------------------------|------------|--------------------------|-------------|
| MAXIMUM | MAXIMUM | ALLOWABLE PRESSURE (PSF) | |
| FRAME HEIGHT | LOAD WIDTH | | CONDITION |
| (IN.) | (IN.) | "XX" | "X0" |
| 74.4/0 | 52 | _ | +61.9/-61.9 |
| | 48 | - | +67.1/67.1 |
| | 46 | | +70.0/-70.0 |
| | 42 | _ | +70.0/76.7 |
| 71 1/8 | 37 | _ | +70.0/-85.0 |
| | 32 | +70.0/-70.0 | +70.0/-85.0 |
| | 28 | +70.0/-80.0 | +70.0/-85.0 |
| | 26 | +70.0/-85.0 | +70.0/-85.0 |
| | 52 | | +70.0/-71.8 |
| 65 1/8 | 49 | · | +70.0/-71.8 |
| | 48 | _ | +70.0/-73.3 |
| | 46 | r | +70.0/-76.4 |
| | 42 | _ | +70.0/-83.7 |
| | 40 | _ | +70.0/-85.0 |
| | 32 | +70.0/-76.4 | +70.0/-85.0 |
| | 28 | +70.0/-85.0 | +70.0/-85.0 |
| | 54 | - | +70.0/-80.7 |
| | 48 | _ | +70.0/-80.7 |
| 59 1/8 | 46 | _ | +70.0/-84.2 |
| | 45 | | +70.0/-85.0 |
| | 36 | +70.0/-74.9 | +70.0/-85.0 |
| | 32 | +70.0/-84.2 | +70.0/-85.0 |
| | 31 | +70.0/-85.0 | +70.0/-85.0 |
| 53 1/8 | 54 | _ | +70.0/-85.0 |
| | 36 | +70.0/-83.3 | +70.0/-85.0 |
| | 35 | +70.0/-85.0 | +70.0/85.0 |
| 47 1/8 | 54 | _ | +70.0/-85.0 |
| | 36 | +70.0/-85.0 | +70.0/-85.0 |

ALLOWABLE DESIGN PRESSURE TABLE

LESSER OF THE PRESSURE SHOWN IN THIS TABLE & THAT ALLOWED FOR THE INDIVIDUAL WINDOW SHALL CONTROL AS ALLOWABLE FOR THE OVERALL UNIT.

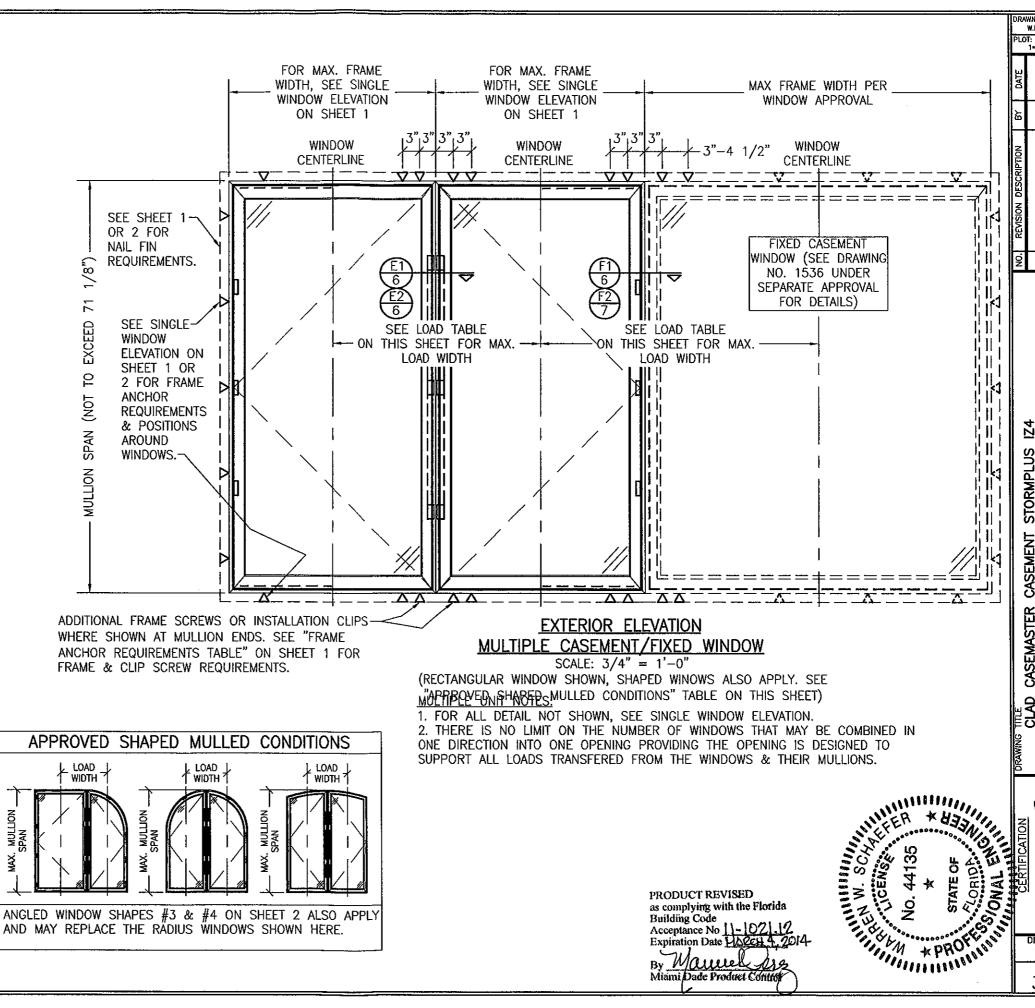
THE VALUES IN THIS TABLE APPLY TO BOTH BAR REINFORCED & NON-REINFORCED MULLION CONDITIONS.

ADD 3/8" TO LOAD WIDTH VALUES IN THIS TABLE WHEN 3/8" ÁLUMINUM REINFORCEMENT PLATE IS USED.

LOAD WIDTH IS THE DISTANCE BETWEEN THE WINDOW CENTERLINES.

"XX" = MULLION BETWEEN 2 OPERABLE WINDOWS.

"XO" = MULLION BETWEEN AN OPERABLE & FIXED WINDOW



CHECKED BY:

DATE: 04/03/08

LOT: 1≃16

124

STORMPLUS

CASEMENT

CASEMASTER

3

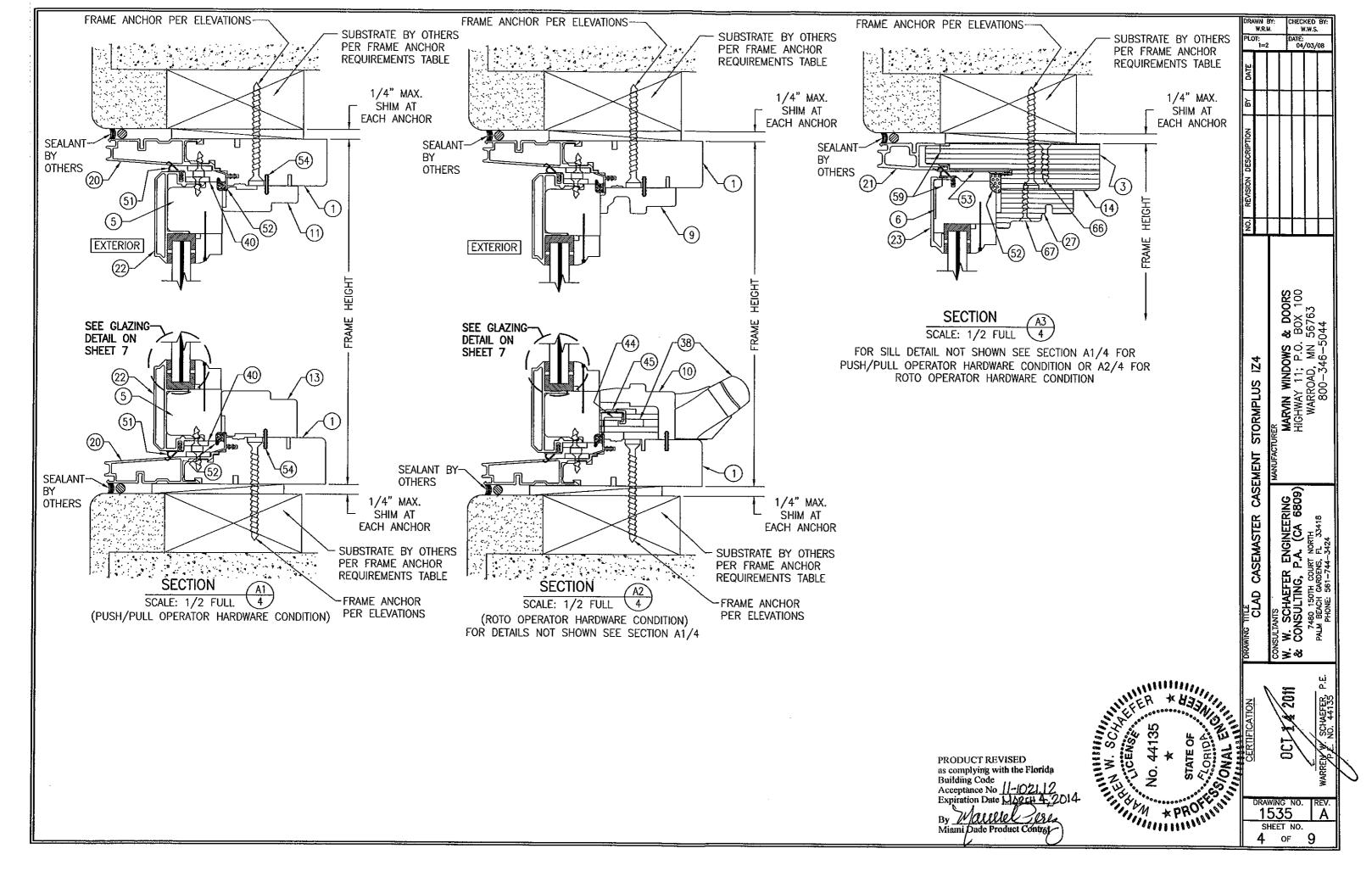
W. SCHAEFER
CONSULTING, F
7480 150TH COU
PALM BEACH GARDEN
PHONE: 561-77

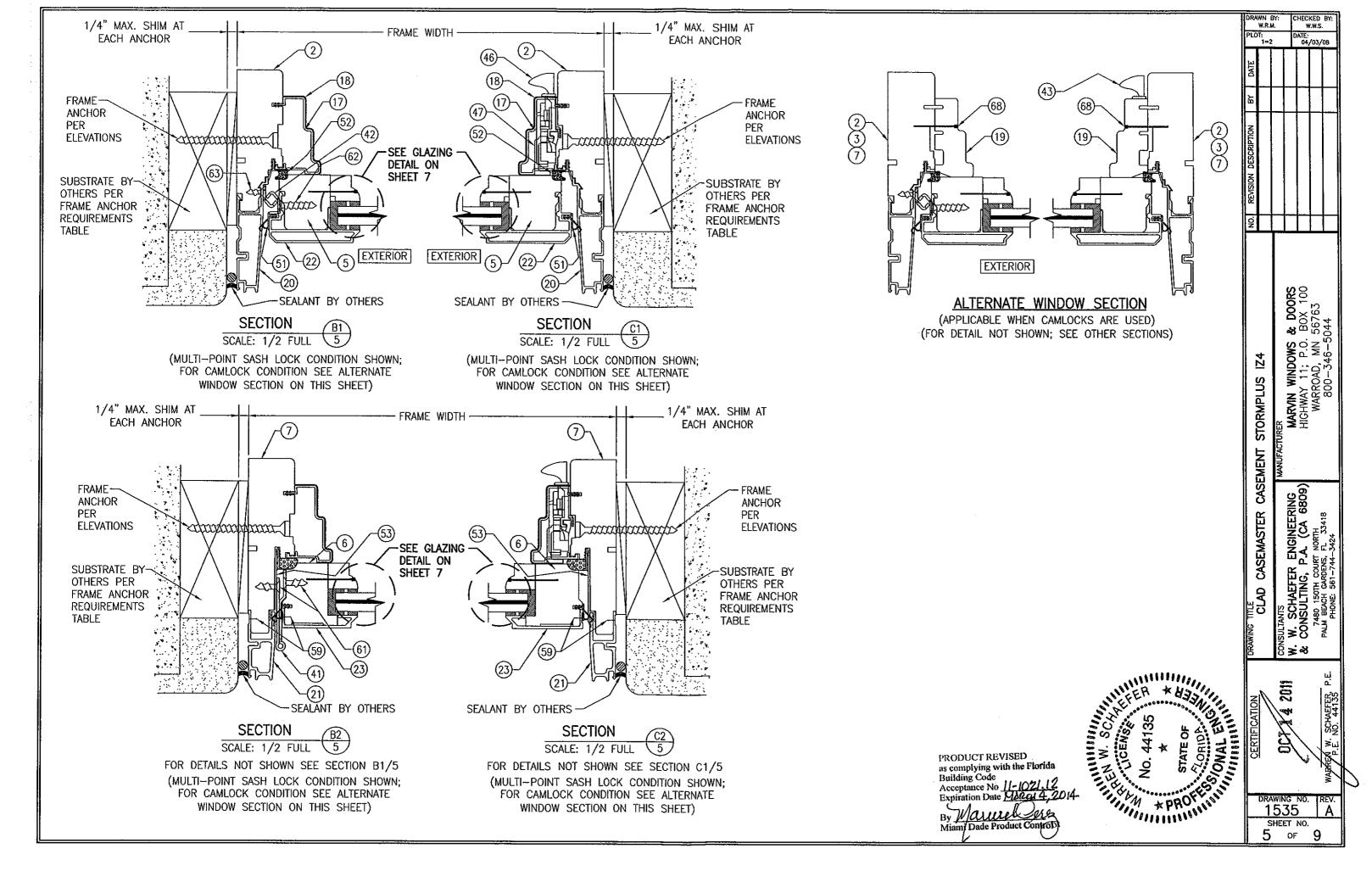
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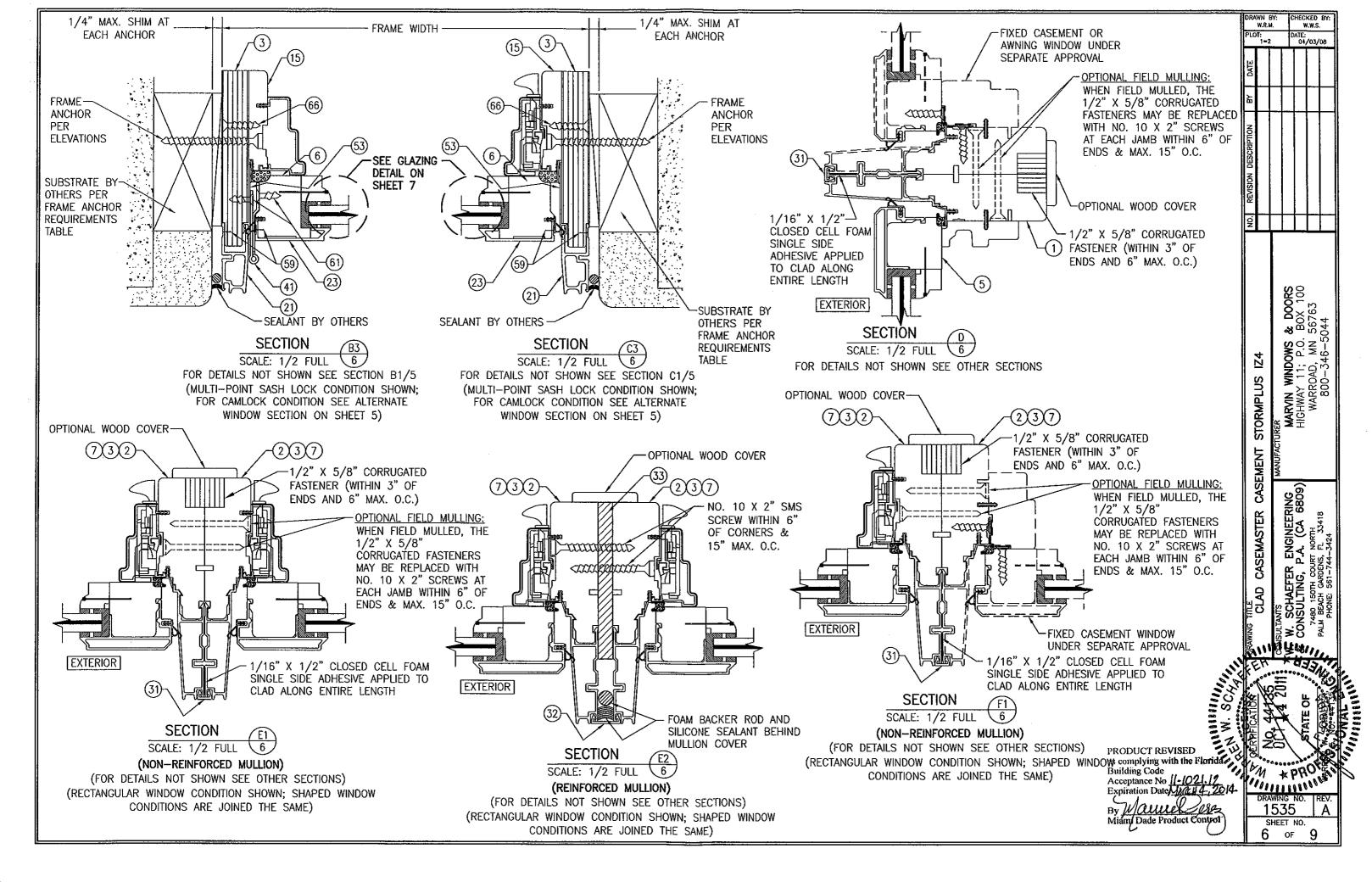
2011

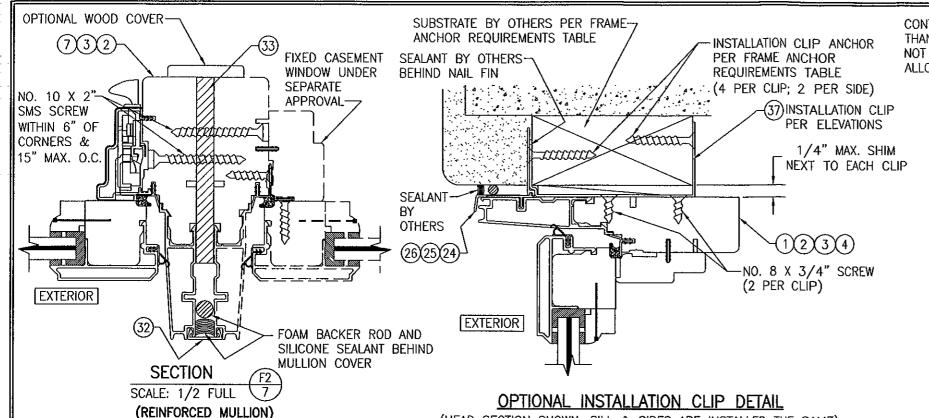
1535 SHEET NO.

3 OF



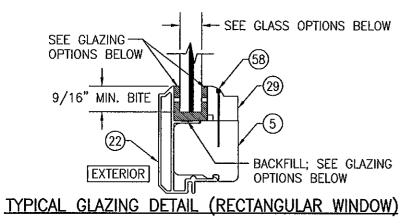






(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME) (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

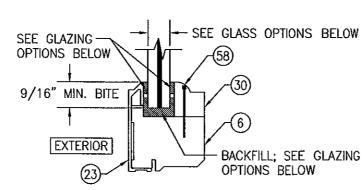
(RECTANGULAR WINDOW CONDITION SHOWN; SHAPED WINDOW CONDITIONS ARE INSTALLED THE SAME)



(FOR DETAILS NOT SHOWN SEE OTHER SECTIONS)

(RECTANGULAR WINDOW CONDITION SHOWN; SHAPED WINDOW

CONDITIONS ARE JOINED THE SAME)



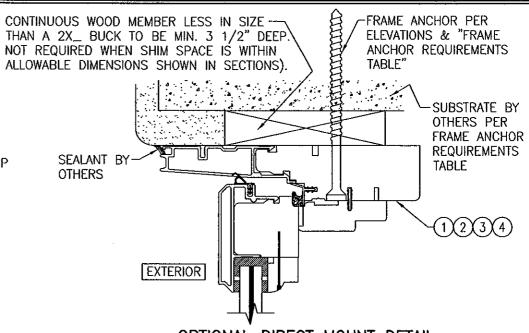
TYPICAL GLAZING DETAIL (SHAPED WINDOW)

GLASS OPTIONS

GLASS OPTION A: 9/16" THICK LAMINATED GLASS (1/4" AN./0.09" DUPONT SG/1/4" AN.) GLASS OPTION B: 9/16" THICK LAMINATED GLASS (1/4" HT.ST./0.09" DUPONT SG/1/4" HT.ST.) GLASS OPTION C: 3/8" THICK LAMINATED GLASS (5/32" AN./0.090" DUPONT SG/5/32" AN.)

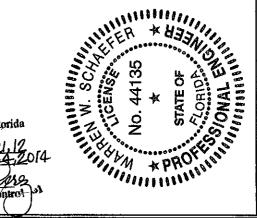
GLAZING OPTIONS

GLAZING OPTION A: POLYOLEFIN FOAM WITH ACRYLIC ADHESIVE GLAZING TAPE AT EXTERIOR & INTERIOR WITH DOW 995 BACKFILL GLAZING OPTION B: GE RAPID STRENGTH EXTERIOR, INTERIOR & BACKFILL



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME) (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS) (RECTANGULAR WINDOW CONDITION SHOWN; SHAPED WINDOW CONDITIONS ARE INSTALLED THE SAME)



| | DRAW | NOS X X X Y | • | |
|---|---------------|-------------------------|--------------------------|---|
| | CERTIFICATION | OCT 1 4 2011 | WARREN W. SCHAEFER, P.E. | |
| | 1, | wing no. 5 35 | REV. | |
| 1 | S | HEET NO. | | 1 |

7 of 9

CHECKED BY: W.W.S.

DATE: 04/03/08

& DOORSBOX 100
56763

MARVIN WINDOWS & DC HIGHWAY 11; P.O. BOX WARROAD, MN 5676 800—346—5044

ENGINEERING P.A. (CA 6809)

STORMPLUS 124

CASEMENT

CASEMASTER

CF SP

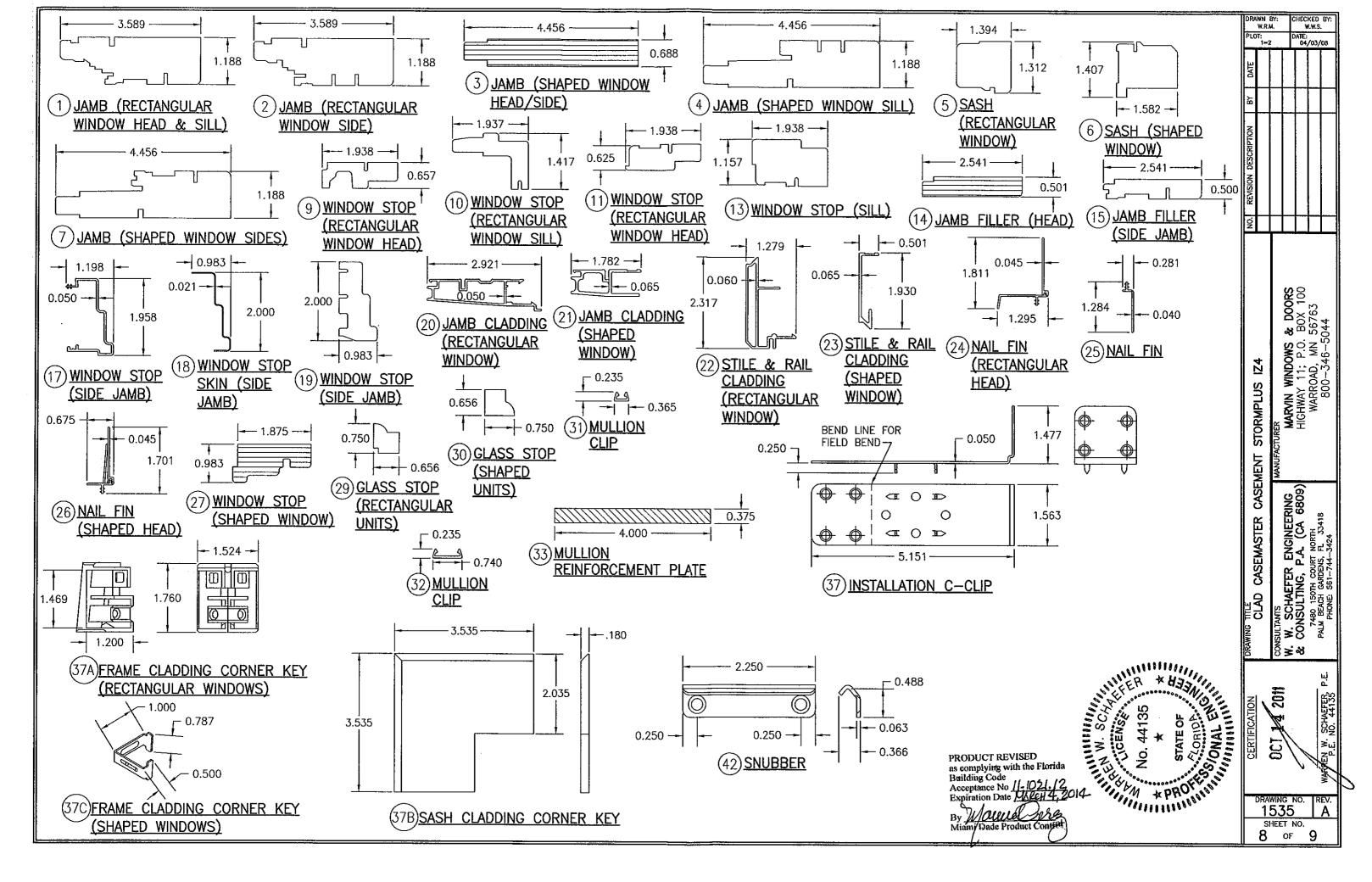
rawn by: W.R.M.

LOT: 1=2

PRODUCT REVISED as complying with the Florida Building Code

Acceptance No 11-1021, 12 Expiration Date 115844-20

Dade Product Contro



| ITEM # | ITEM DESCRIPTION | MANUFACTURER/NOTES | |
|--------|---|--|--|
| | PARTS | | |
| 1 | JAMB (RECTANGULAR WINDOW HEAD & SILL) | * WOOD | |
| 2 | JAMB (RECTANGULAR WINDOW SIDES) | * WOOD | |
| 3 | JAMB (SHAPED WINDOW HEAD/SIDE) | * WOOD (LVL AT 1/4 & 1/2 ROUND; FINGER JOINTED AT EYE BROW SHAPES | |
| 4 | JAMB (SHAPED WINDOW SILL) | * WOOD | |
| 5 | SASH (RECTANGULAR WINDOW) | * WOOD | |
| _ 6 | SASH (SHAPED WINDOW) | * WOOD | |
| 7 | JAMB (SHAPED WINDOW SIDES) | * WOOD | |
| 9 | WINDOW STOP (RECTANGULAR WINDOW HEAD) | * WOOD | |
| 10 | WINDOW STOP (RECTANGULAR WINDOW SILL) | * WOOD | |
| 11 | WINDOW STOP (RECTANGULAR WINDOW HEAD) | * WOOD | |
| 13 | WINDOW STOP (SILL) | * WOOD | |
| 14 | JAMB FILLER (SHAPED WINDOW HEAD) | * WOOD (LVL AT 1/4 & 1/2 ROUND; FINGER JOINTED AT EYE BROW SHAPES | |
| 15 | JAMB FILLER (SIDE JAMB) | * WOOD | |
| 17 | WINDOW STOP (SIDE JAMB) | VINYL | |
| | USED WITH MULTI-POINT SASH LOCK CONDITION | | |
| 18 | WINDOW STOP SKIN (SIDE JAMB) | WOOD VENEER | |
| | USED WITH MULTI-POINT SASH LOCK CONDITION | | |
| 19 | WINDOW STOP (SIDE JAMB) | * WOOD | |
| | USED WITH CAMLOCK CONDITION | | |
| | JAMB CLADDING (RECTANGULAR WINDOW) | 6063-T5 ALUMINUM | |
| | JAMB CLADDING (SHAPED WINDOW) | 6063-T5 ALUMINUM | |
| 22 | STILE & RAIL CLADDING (RECTANGULAR WINDOW) | 6063-T5 ALUMINUM | |
| 23 | STILE & RAIL CLADDING (SHAPED WINDOW) | 6063-T5 ALUMINUM | |
| 24 | NAIL FIN (RECTANGULAR HEAD) | 6063-T5 ALUMINUM | |
| | NAIL FIN | 6063-T5 ALUMINUM | |
| | NAIL FIN (SHAPED HEAD) | 6063-T5 ALUMINUM | |
| 27 | WINDOW STOP (SHAPED WINDOW HEAD) | LVL | |
| | GLASS STOP | * WOOD | |
| | GLASS STOP | * WOOD | |
| 31 | MULLION CLIP | 6063-T5 ALUMINUM | |
| | MULLION CLIP | 6063-T5 ALUMINUM | |
| | MULLION REINFORCEMENT PLATE | 6061—T6 ALUMINUM | |
| | INSTALLATION C-CLIP | 50 KSI GALV. STEEL | |
| | FRAME CLAD CORNER KEY (RECTANGULAR WINDOWS) | NYLON | |
| | SASH CLADDING CORNER KEY | 5052 ALUMINUM | |
| 37C | FRAME CLAD CORNER KEY (SHAPED WINDOWS) | 6063-T1 ALUMINUM | |
| | HARDWARE | | |
| 38 | OPERATOR WITH HANDLE | TRUTH-SERIES 15 DUAL ARM OPERATOR MW ZINC HANDLE MW PLASTIC HARDWARE COVER | |
| 40 | SCISSOR HINGE | 10" LONG. S.S. THRUTH 13-16-00-119 (LEFT) THRUTH 13-16-00-120 (RIGHT) | |
| 41 | BUTT HINGE | 304 S.S.; MARVIN #10929105 | |
| | SNUBBER | 50 KSI STEEL | |
| | CAMLOCK | TRUTH #16-18 | |
| | ROLLER TRACK | TRUTH SERIES 30706 | |
| | SASH LIMITER | MARVIN #15808598 | |
| | MULTI-POINT SASH LOCK | TRUTH #16-18 | |
| | SASH LOCK KEEPER | TRUTH #15-18 TRUTH #31359 | |
| 17_1 | O'O' EOON MEETEN | 11/0111 #21008 | |

| ITEM # | ITEM DESCRIPTION | MANUFACTURER/NOTES |
|--------|----------------------------|--|
| | PARTS | The state of the s |
| | SEALS & SEALANTS | |
| 51 | SASH WEATHERSTRIP | RIGID GLASS FILLED POLYPROPOLENE BY INTEK |
| 52 | VINYL FRAME WEATHERSTRIP | BY AMSBURY |
| 53 | THERMAL BREAK | BY AMSBURY |
| 54 | CONNECTING BARB | PVC & GEON C70a0 |
| | MISC. FASTENERS | |
| . 58 | F-18 x 1.125" BRAD NAIL | 3" FROM CORNERS & MAX. 8" O.C. |
| 59 | GSN 18 X 1/2" S.S. STAPLE | 3" FROM CORNERS & MAX. 6" O.C. |
| 61 | NO. 10-32 FH MACHINE SCREW | 4 PER HINGE |
| 62 | NO. 8 X 1" SMS | 2 PER SNUBBER |
| 63 | NO. 7 X 1/2" SMS | 2 PER SNUBBER |
| 66 | NO. 8 X 1" SMS | 2" FROM ENDS & 5" TO 8" O.C. |
| 67 | | |
| 68 | F14 x 1 3/8" BRAD NAIL | 2" FROM ENDS & 4" TO 6" O.C. |

^{*} ALL WOOD USED WITH TESTED UNITS IS MIN. GRADE 2 WESTERN PINE. ALTERNATE WOOD SPECIES TO PINE SHALL BE MIN. GRADE 2 WITH "E" = 1200000 PSI MIN. & "G" = 0.43 MIN NOTE: ALL WOOD IS RECEIVED BY MARVIN WINDOWS & DOORS AS GRADE 2, BUT IS MACHINED BY MARVIN TO A SELECT GRADE USE.

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CLAD CASEMASTER

CLAD CASEMASTER

CONSULTANTS

W. W. SCHAEFER ENGINEER

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W. W. SCHAEFER ENGINEER

Z480 150TH COURT NORTH

PALM BEACH CARDENS, FL. 33416

PHONE 561-744-3424

9 of

MARVIN WINDOWS HIGHWAY 11; P.O.

CASEMENT STORMPLUS 124

CHECKED BY: W.W.S.

DATE: 04/03/08

OLOT:

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 11-1021-12

By Waynel Strain Date Moret 4, 70 By Waynel Strain Dade Product Control